

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	109	(catheter and (sleeve sheath bushing tube) and (distal adj shaft) and (proximal adj shaft)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/13 14:13
L2	73	(catheter and (sleeve sheath bushing tube) and (distal adj shaft) and (proximal adj shaft) and (port opening aperture window)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/13 14:14
L3	36	1 not 2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/13 14:24
L4	621	(catheter and (sleeve sheath bushing tube) and (distal adj shaft) and (proximal adj shaft) and (port opening aperture window)) and ("606"/\$.ccls. "623"/\$.ccls. "604"/\$.ccls. "128"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/13 14:27
L5	524	4 not 1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/13 14:27
L6	351	5 and @ad<"20040601"	US-PGPUB; USPAT	OR	ON	2010/01/13 14:28
L7	173	5 not 6	US-PGPUB; USPAT	OR	ON	2010/01/13 14:28
L8	198	((HEIDNER with MATTHEW) (HOLMAN with THOMAS)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/13 15:06

L9	85	((HEIDNER with MATTHEW) (HOLMAN with THOMAS)).in. and catheter and shaft	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/13 15:07
S1	11324	catheter with (sleeve sheath bushing)	US-PGPUB; USPAT	OR	ON	2006/07/13 08:37
S2	9830	S1 and connect\$5	US-PGPUB; USPAT	OR	ON	2005/04/28 14:49
S3	9613	S2 and @ad<"20040601"	US-PGPUB; USPAT	OR	ON	2005/04/28 14:52
S4	7576	S3 and ("606"/\$.ccls. "604"/\$.ccls. "623"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:43
S5	2717	S4 and (connect\$5 with (bushing sleeve sheath))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:39
S6	405	S5 and (heat with (bushing sleeve sheath))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:40
S7	215	S6 and (heat with (shrink \$4 shrunk shrunken))	US-PGPUB; USPAT	OR	ON	2006/07/13 13:46
S8	11324	catheter with (sleeve sheath bushing)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:43
S9	9830	S8 and connect\$5	US-PGPUB; USPAT	OR	ON	2005/04/30 20:39
S10	9613	S9 and @ad<"20040601"	US-PGPUB; USPAT	OR	ON	2005/04/30 20:39
S11	7576	S10 and ("606"/\$.ccls. "604"/\$.ccls. "623"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2005/04/30 20:41
S12	2726	S11 and (connect\$5 with tube)	US-PGPUB; USPAT	OR	ON	2005/04/30 20:39
S13	506	S12 and (heat with (tube))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:41
S14	16868	catheter with (tube)	US-PGPUB; USPAT	OR	ON	2005/04/30 20:41
S15	11694	S14 and ("606"/\$.ccls. "604"/\$.ccls. "623"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2005/04/30 20:41
S16	1535	S15 and (heat with (tube))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:41
S17	641	S16 and (heat with (shrink \$4 shrunk shrunken))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:41
S18	2717	S11 and (connect\$5 with (bushing sleeve sheath))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:42
S19	405	S18 and (heat with (bushing sleeve sheath))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:42
S20	215	S19 and (heat with (shrink \$4 shrunk shrunken))	US-PGPUB; USPAT	OR	ON	2005/04/30 20:42
S21	405	S19 S20	US-PGPUB; USPAT	OR	ON	2005/04/30 20:42

S22	405	S21 and (link\$4 join\$4 connect\$4)	US-PGPUB; USPAT	OR	ON	2005/04/30 20:50
S23	405	S22 and heat\$4	US-PGPUB; USPAT	OR	ON	2005/04/30 20:53
S24	195	S23 and (shrink shrunk shrunk)	US-PGPUB; USPAT	OR	ON	2005/04/30 21:06
S25	158	S23 and (heat with (shrink shrunk shrunk))	US-PGPUB; USPAT	OR	ON	2005/04/30 21:06
S26	57	S23 and ((heat with (shrink shrunk shrunk)) with (connect\$4 join\$4 link \$4))	US-PGPUB; USPAT	OR	ON	2005/04/30 21:39
S27	101	S25 not S26	US-PGPUB; USPAT	OR	ON	2005/04/30 21:39
S28	1048	catheter and 623/1.11. ccls. and @ad<"20040601"	US-PGPUB; USPAT	OR	ON	2005/05/01 16:08
S29	180	S28 and ((rapid adj exchange) (quick adj exchange))	US-PGPUB; USPAT	OR	ON	2005/05/01 16:09
S30	35	S29 and heat and (shrink shrunk shrunk)	US-PGPUB; USPAT	OR	ON	2005/05/01 17:09
S31	145	S29 not S30	US-PGPUB; USPAT	OR	ON	2005/05/01 16:10
S32	44	("4503569" "4512338" "4732152" "4733665" "4848343" "4950227" "5019090" "5044726" "5047045" "5108416" "5156594" "5158548" "5234456" "5258020" "5267959" "5279693" "5403341" "5443458" "5443907" "5453090" "5501759" "5534007" "5546552" "5653691" "5702364" "5833706" "5897537" "5938653" "5944726" "5957930" "5968069" "5980530" "5980533" "6007543" "6017577" "6024752" "6036697" "6068630" "6068634" "6096056" "6139525" "6176849" "6221097" "6221467"). PN.	US-PGPUB; USPAT	OR	ON	2005/05/01 17:11
S33	26	S32 and heat	US-PGPUB; USPAT	OR	ON	2005/05/01 17:25
S34	4	(heidner and matthew).in.	US-PGPUB; USPAT	OR	ON	2005/05/01 17:26

S35	17	(US-20020077595-\$ or US-20030009188-\$ or US-20030149465-\$ or US-20040064146-\$ or US-20020183763-\$ or US-20030114912-\$).did. or (US-5178158-\$ or US-5290247-\$ or US-5571089-\$ or US-5791036-\$ or US-6240231-\$ or US-6319262-\$ or US-6562021-\$ or US-6712767-\$ or US-6733487-\$ or US-6837897-\$ or US-5267959-\$).did.	US-PGPUB; USPAT	OR	ON	2005/05/01 17:42
S36	11	S35 and @ad<"20020204"	US-PGPUB; USPAT	OR	ON	2007/07/17 16:16
S37	1	"6666883".pn.	US-PGPUB; USPAT	OR	ON	2005/05/01 20:14
S38	1	"6666883".pn.	USPAT	OR	OFF	2005/10/17 11:27
S39	1	"6495155".pn.	USPAT	OR	OFF	2005/10/17 11:31
S40	1	"5957932".pn.	USPAT	OR	OFF	2005/10/17 11:31
S41	5	(HEIDNER with MATTHEW).in.	US-PGPUB; USPAT	OR	ON	2006/05/30 17:17
S42	105	(HOLMAN with THOMAS).in.	US-PGPUB; USPAT	OR	ON	2006/05/30 17:17
S43	1	S41 and S42	US-PGPUB; USPAT	OR	ON	2006/05/30 17:18
S44	305646	(catheter heat).clm.	US-PGPUB; USPAT	OR	ON	2006/05/30 17:19
S45	230001	S44 and @ad<"20020205"	US-PGPUB; USPAT	OR	ON	2006/05/30 17:19
S46	10886	S45 and (heat with (shrunk shrink\$4))	US-PGPUB; USPAT	OR	ON	2006/05/30 17:20
S47	1625	S45 and ((heat with (shrunk shrink\$4)) with sleeve)	US-PGPUB; USPAT	OR	ON	2006/05/30 17:21
S48	273	S47 and ("606"/\$.ccls. "604"/\$.ccls. "623"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/05/30 17:21
S49	2	("4194509" "4516972").pn.	US-PGPUB; USPAT	OR	ON	2006/07/13 08:37
S50	2	S49 and (shrink shrunk)	US-PGPUB; USPAT	OR	ON	2006/07/13 08:38
S51	2	S50 and heat	US-PGPUB; USPAT	OR	ON	2006/07/13 08:38
S52	32062	catheter with (sleeve sheath bushing tube tubular tubing)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:43

S53	13597	catheter with (sleeve sheath bushing)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:44
S54	11816	S53 and connect\$5	US-PGPUB; USPAT	OR	ON	2006/07/13 13:46
S55	10415	S54 and @ad<"20040601"	US-PGPUB; USPAT	OR	ON	2006/07/13 13:47
S56	8394	S55 and ("128"/\$.ccls. "606"/\$.ccls. "604"/\$.ccls. "623"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:45
S57	22796	S52 and ("128"/\$.ccls. "606"/\$.ccls. "604"/\$.ccls. "623"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:47
S58	2064	S57 and (heat with (shrink \$4 shrunk shrunken))	US-PGPUB; USPAT	OR	ON	2006/07/13 13:46
S59	2064	S58 and ("128"/\$.ccls. "606"/\$.ccls. "604"/\$.ccls. "623"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/07/13 13:47
S60	1873	S58 and @ad<"20040601"	US-PGPUB; USPAT	OR	ON	2006/07/13 13:48
S61	0	S60 not S59	US-PGPUB; USPAT	OR	ON	2006/07/13 13:48
S62	191	S59 not S60	US-PGPUB; USPAT	OR	ON	2006/07/13 13:48
S63	2	("5569184" "4194509"). pn. and heat and shrink\$4	US-PGPUB; USPAT	OR	ON	2006/09/05 07:11
S64	1245	(port opening hole aperture) with (heat near2 shrink\$4)	US-PGPUB; USPAT	OR	ON	2007/03/26 16:49
S65	2429	(port opening hole aperture) with (heat near2 shrink\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 16:49
S66	34	S65 same catheter\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:06
S67	2	"20030149465"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:08
S68	2	"20030149465" and heat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:20

S69	38658	heat with (shrink shrunk shrank shrunk)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:22
S70	11844	(sleeve sheath tube tubing) with (heat with (shrink shrunk shrank shrunk))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:23
S71	808118	(sleeve sheath tube tubing) with (hole opening aperture port window)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:25
S72	3408	S70 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:25
S73	1009	S72 and catheter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 18:25
S74	693	S73 and (guidewire (guide adj wire))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 19:18
S75	379	S74 and @ad<"20020205"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 19:19
S76	421	S73 and ((guidewire (guide adj wire)) with (port aperture hole opening window))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 19:18
S77	225	S76 and @ad<"20020205"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 19:23
S78	54	S77 and ((rapid near2 exchange) (quick near2 exchange))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/26 19:24
S79	1	"6666883".pn.	US-PGPUB; USPAT	OR	ON	2007/03/28 13:33

S80	1	"4194509".pn.	US-PGPUB; USPAT	OR	ON	2007/03/28 13:33
S81	1	"6666883".pn.	US-PGPUB; USPAT	OR	ON	2007/07/05 15:02
S82	47	("4194509" "4503569" "4512338" "4732152" "4733665" "4848343" "4950227" "5019090" "5044726" "5047045" "5108416" "5156594" "5158548" "5234456" "5258020" "5267959" "5279693" "5290247" "5403341" "5443458" "5443907" "5453090" "5501759" "5534007" "5546552" "5653691" "5702364" "5833706" "5897537" "5938653" "5944726" "5957930" "5968069" "5980530" "5980533" "6007543" "6017577" "6024752" "6036697" "6068630" "6068634" "6096056" "6139525" "6176849" "6221097" "6221467" "6837897").PN.	US-PGPUB; USPAT	OR	ON	2007/07/17 09:59
S83	2044	(rapid near2 exchang\$4) with catheter	US-PGPUB; USPAT	OR	ON	2007/07/17 16:15
S84	987	S83 and @ad< "20020204"	US-PGPUB; USPAT	OR	ON	2007/07/17 16:16
S85	90	S84 and (heat with (shink \$4 shrunk))	US-PGPUB; USPAT	OR	ON	2007/07/17 16:38
S86	1	"6733487".pn.	US-PGPUB; USPAT	OR	ON	2007/07/17 16:38
S87	1264	(three near2 way) with connector	US-PGPUB; USPAT	OR	ON	2007/07/19 15:32
S88	107	(three near2 way) with connect\$4 with (polymer \$4 plastic)	US-PGPUB; USPAT	OR	ON	2007/07/19 15:32
S89	31686	((y near3 fit\$4) (y near3 connect\$4))	US-PGPUB; USPAT	OR	ON	2007/07/19 16:27
S90	2560	S89 and catheter	US-PGPUB; USPAT	OR	ON	2007/07/19 16:27
S91	954	((y near3 fit\$4) (y near3 connect\$4)) with catheter	US-PGPUB; USPAT	OR	ON	2007/07/19 16:27
S92	639	S91 and @ad< "20020205"	US-PGPUB; USPAT	OR	ON	2007/07/19 16:27

S93	43	(US-20040064146-\$ or US-20020077595-\$ or US-20030149465-\$ or US-20030009188-\$ or US-20030114912-\$ or US-20020068966-\$ or US-20030125802-\$ or US-20060226615-\$).did. or (US-5246437-\$ or US-6733487-\$ or US-6712767-\$ or US-6562021-\$ or US-6319262-\$ or US-6240231-\$ or US-5791036-\$ or US-5290247-\$ or US-5178158-\$ or US-5156594-\$ or US-4516972-\$ or US-6666883-\$ or US-6837897-\$ or US-5267959-\$ or US-5569184-\$ or US-5423754-\$ or US-4194509-\$ or US-7037291-\$ or US-5928181-\$ or US-5772642-\$ or US-5685312-\$ or US-5570715-\$ or US-4781702-\$ or US-5487830-\$ or US-5334315-\$ or US-4447230-\$).did. or (US-4596555-\$ or US-4511351-\$ or US-4094790-\$ or US-6921391-\$ or US-5691478-\$ or US-6702781-\$ or US-5389087-\$ or US-4306976-\$).did. or (US-20030149465-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2007/07/19 20:39
S94	28	S93 and heat	US-PGPUB; USPAT	OR	ON	2007/07/19 20:41
S95	3	("6527785" "6511489" "7131978").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/21 12:55
S96	1	"5569184".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 10:40
S97	1	"4447230".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 11:33
S98	0	"4447230".pn. and heat and shrink\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 11:33
S99	0	"4447230".pn. and heat	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 11:34
S100	1	"6837897".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 13:17
S101	1	"6837897".pn. and heat	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 13:20
S102	1	"6837897".pn. and (heat with shrink\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 13:21

S103	152	((HEIDNER with MATTHEW) (HOLMAN with THOMAS)).in.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 13:53
S104	96	((HEIDNER with MATTHEW) (HOLMAN with THOMAS)).in. and catheter	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 13:53
S105	1	((HEIDNER with MATTHEW) and (HOLMAN with THOMAS)).in. and catheter	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 13:54
S106	71	((HEIDNER with MATTHEW) (HOLMAN with THOMAS)).in. and catheter and shaft	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 13:54
S107	1	"6837897".pn.	US-PGPUB; USPAT	OR	ON	2009/07/07 10:03
S108	1	"20030149465"	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/11 14:50
S109	1	"20030149465" and heat \$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/06 16:00

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